

**WHAT IS CLAIMED IS:**

1    1. A compound contents delivery method using a  
2    plurality of contents servers to which a plurality of  
3    contents are distributed to be stored in their contents  
4    storage units, respectively, a management server for  
5    managing delivery of contents to a portable terminal and  
6    an intermediate apparatus for mediating supply of  
7    contents from said plurality of contents servers to said  
8    management server so that said plurality of contents  
9    distributed to said plurality of contents servers are  
10   partially fetched as contents portions to combine the  
11   fetched contents portions according to time series for  
12   delivering compound contents produced through the  
13   combination thereof to said portable terminal, said  
14   method comprising:

15               an instruction information production step of, in  
16    said management server, producing instruction  
17    information for the compound contents production on the  
18    basis of a substance of said compound contents to be  
19    produced;

20               a contents portion fetching instruction step of,  
21    in said intermediate apparatus, instructing said  
22    contents servers to fetch contents portions needed for  
23    the compound contents production according to said  
24    instruction information produced in said instruction  
25    information production step;

26        a compound contents element acquisition step of,  
27    in each of said contents servers, acquiring compound  
28    contents element converted in encoding format for said  
29    portable terminal in corresponding relation to said  
30    contents portion which is an object of the fetching  
31    instruction in said contents portion fetching  
32    instruction step to return the acquired compound contents  
33    element to said intermediate apparatus;

34        a production step of, in said intermediate apparatus,  
35    combining said compound contents elements returned from  
36    said contents servers according to time series on the  
37    basis of instruction information from said management  
38    server to produce compound contents oriented to said  
39    portable terminal; and

40        a delivery step of, in said management server,  
41    delivering said compound contents produced in said  
42    production step to said portable terminal.

1    2. A compound contents delivery method according to  
2    claim 1, wherein said management server is made to store  
3    and manage said compound contents returned from said  
4    intermediate apparatus in corresponding relation to said  
5    instruction information in the past in a state associated  
6    with said instruction information, and said method  
7    further comprises:

8        an identity decision step of making a decision as  
9    to the identity between said instruction information

10 produced in said instruction information production step  
11 and said instruction information stored in said  
12 management server; and

13 an in-management-server first control step of, when  
14 the decision result in said identity decision step shows  
15 the produced instruction information is identical with  
16 said instruction information stored and managed in said  
17 management server, using said compound contents stored  
18 in a state associated with the stored instruction  
19 information as said compound contents to be delivered  
20 to said portable terminal in said delivery step and, when  
21 the decision shows no identity therebetween,  
22 transmitting the produced instruction information to  
23 said intermediate apparatus.

1 3. A compound contents delivery method according to  
2 claim 2, wherein a plurality of intermediate apparatuses  
3 each identical with said intermediate apparatus are  
4 provided, and in said identity decision step, a decision  
5 is additionally made as to the degree of similarity between  
6 the produced instruction information and said  
7 instruction information stored in said management server,  
8 and in said in-management-server first control step, when  
9 a decision result in said identity decision step shows  
10 that the produced instruction information is not  
11 identical with said instruction information stored and  
12 managed in said management server, the produced

13 instruction information is transmitted to said  
14 intermediate apparatus to which compound contents  
15 information is returned with respect to, of said  
16 instruction information stored and managed in said  
17 management server, said instruction information which  
18 is decided to be most similar to the produced instruction  
19 information.

1 4. A compound contents delivery method according to  
2 claim 1, wherein a plurality of intermediate apparatuses  
3 each identical with said intermediate apparatus are  
4 provided, and in said management server, a processing  
5 load monitoring step is implemented to monitor a  
6 processing load in said converting unit and an  
7 in-management-server second control step is provided to  
8 transmit said instruction information produced in said  
9 instruction information production step to said  
10 converting unit having a smallest processing load on the  
11 basis of a monitor result from said processing load  
12 monitoring step.

1 5. A compound contents delivery method according to  
2 claim 1, wherein, in said compound contents element  
3 acquisition step, said intermediate apparatus stores and  
4 manages said compound contents elements returned from  
5 said contents server in the past, and said contents portion  
6 fetching instruction step includes an

7       in-intermediate-unit duplication decision step of  
8       obtaining information for specifying contents portion  
9       needed for the compound contents production from said  
10      instruction information and making a decision as to the  
11      degree of duplication in substance between said contents  
12      portion needed for the compound contents production and  
13      said compound contents element stored and managed in said  
14      intermediate apparatus; and

15            a fetching instruction execution step for giving  
16            a fetching instruction to said contents server on the  
17            basis of a decision result in said in-intermediate-unit  
18            duplication decision step.

1       6. A compound contents delivery method according to  
2       claim 5, wherein, in said fetching instruction execution  
3       step, on the basis of the decision result in said  
4       in-intermediate-unit duplication decision step, said  
5       fetching instruction is not given to said contents server  
6       with respect to a duplicate portion between a substance  
7       of said contents portion needed for the compound contents  
8       production and said compound contents element stored and  
9       managed, and a compound contents element corresponding  
10      to said duplicate portion is used in producing said  
11      compound contents in said production step.

1       7. A compound contents delivery method according to  
2       claim 5, wherein, in said fetching instruction execution

3 step, on the basis of the decision result in said  
4 in-intermediate-unit duplication decision step, when the  
5 substance of a portion of the contents portion needed  
6 for the compound contents production is duplicate with  
7 respect to said compound contents element stored and  
8 managed, said fetching instruction on a contents portion  
9 non-duplicate with respect to said compound contents  
10 element is given to said contents server.

1 8. A compound contents delivery method according to  
2 claim 1, wherein each of said contents servers stores  
3 and manages said compound contents element returned in  
4 said compound contents element acquisition step in the  
5 past and said compound contents element acquisition step  
6 includes:

7 an in-contents-server duplication decision step of  
8 making a decision on the degree of the duplication in  
9 substance between the contents portion which is an object  
10 of said fetching instruction in said contents portion  
11 fetching instruction step and said compound contents  
12 element stored and managed in said contents server; and

13 a compound contents element reply step of, on the  
14 basis of a decision result in said in-contents-server  
15 duplication decision step, fetching said contents  
16 portion, which is an object of said fetching instruction,  
17 from said contents storage unit and making a conversion  
18 into an encoding format for said portable terminal to

19    return it as a compound content element to said  
20    intermediate apparatus.

1    9. A compound contents delivery method according to  
2    claim 8, wherein, in said compound contents element reply  
3    step, on the basis of the decision result in said  
4    in-contents-server duplication decision step, of said  
5    contents portion which is an object of said fetching  
6    instruction in said contents portion fetching  
7    instruction step, a portion duplicate in substance with  
8    respect to said compound contents element stored and  
9    managed is not fetched from said contents storage unit  
10   while a compound contents element corresponding to the  
11   substance duplicate portion is returned to said  
12   intermediate apparatus.

1    10. A compound contents delivery method according to  
2    claim 8, wherein, in said compound contents element reply  
3    step, on the basis of the decision result in said  
4    in-contents-server duplication decision step, of said  
5    contents portion which is an object of said fetching  
6    instruction in said contents portion fetching  
7    instruction step, a portion non-duplicate in substance  
8    with respect to said compound contents element stored  
9    and managed is fetched from said contents storage unit  
10   and, after a conversion is made into an encoding format  
11   for said portable terminal, the non-duplicate portion

12   is returned as a compound contents element to said  
13   intermediate apparatus.

1   11. A compound contents delivery method according to  
2   claim 1, wherein, in said contents server, on the basis  
3   of popularity, important event and the like, a contents  
4   portion expected to be an object of said fetching  
5   instruction in said contents portion fetching  
6   instruction step is stored and managed as said compound  
7   contents element in advance.

1   12. A compound contents delivery method according to  
2   claim 1, wherein each of said contents distributed to  
3   said plurality of contents servers includes data having  
4   a time zone including voice data or motion picture data  
5   and said contents portion is arranged through the use  
6   of the voice or motion picture data partially extracted  
7   from said time zone.

1   13. A compound contents delivery method according to  
2   claim 12, wherein, in said contents portion fetching  
3   instruction step in said intermediate apparatus, said  
4   contents portion for the compound contents production  
5   which is an object of said fetching instruction is  
6   designated by designating information about a service  
7   location on the internet having said contents portion,

8       a time zone of said contents portion, a media assortment  
9       or an encoding condition after the encoding conversion.

1       14. A compound contents delivery system comprising a  
2       plurality of contents servers to which a plurality of  
3       contents are distributed to be stored in their contents  
4       storage units, respectively, a management server for  
5       managing delivery of contents to a portable terminal and  
6       an intermediate apparatus for mediating supply of  
7       contents from said plurality of contents servers to said  
8       management server so that said plurality of contents  
9       distributed to said plurality of contents servers are  
10      partially fetched as contents portions to combine the  
11      fetched contents portions according to time series for  
12      delivering compound contents produced through the  
13      combination thereof from said management server to said  
14      portable terminal,

15            said management server including:

16            a compound contents acquisition unit for  
17       acquiring said compound contents on the basis of  
18       instruction information for production of said compound  
19       contents which is produced on the basis of a substance  
20       of said compound contents to be produced; and

21            a delivery unit for delivering said compound  
22       contents acquired by said compound contents acquisition  
23       unit to said portable terminal, and

24            said intermediate apparatus including:

25           a contents portion fetching instruction unit  
26   for instructing said contents servers to fetch contents  
27   portions needed for the compound contents production when  
28   receiving a request for the compound contents production  
29   and said instruction information from said compound  
30   contents acquisition unit;

31           a production unit for combining compound  
32   contents elements returned from said contents servers  
33   according to time series on the basis of said instruction  
34   information from said management server to produce  
35   compound contents oriented to said portable terminal;

36           a compound contents outputting unit for  
37   outputting said compound contents produced in said  
38   production unit to said compound contents acquisition  
39   unit of said management server, and

40           said each of said contents servers including:

41           a compound contents element acquisition unit  
42   for acquiring a compound contents element, in which an  
43   encoding format is converted for said portable terminal,  
44   corresponding to said content portion which is an object  
45   of said fetching instruction in said contents portion  
46   fetching instruction unit to return the acquired compound  
47   contents element to said intermediate apparatus.

1   15. A compound contents delivery system according to  
2   claim 14, wherein said management server includes an  
3   in-management-server storage management unit for storing

4 and managing compound contents returned from said  
5 intermediate apparatus in corresponding relation to said  
6 instruction information in a state where said compound  
7 contents are associated with said instruction  
8 information.

1 16. A compound contents delivery system according to  
2 claim 14, wherein said intermediate apparatus includes  
3 an in-intermediate-apparatus storage management unit for  
4 storing and managing said compound contents element  
5 returned from said contents server through the use of  
6 said compound contents element acquisition unit.

1 17. A compound contents delivery system according to  
2 claim 14, wherein each of said contents servers includes  
3 a storage management unit for storing and managing a  
4 compound content element from said compound contents  
5 element acquisition unit.